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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/552,310	04/19/2000	Patricia C. Irwin	839-750	4131
. 75	90 01/23/2003			
Nixon & Vanderhye PC 1100 North Glebe Road 8th Floor			EXAMINER	
			DONOVAN, LINCOLN D	
Arlington, VA 22201-4714			ART UNIT	PAPER NUMBER
			2832	
			DATE MAILED: 01/23/2003	DATE MAILED: 01/23/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. **09/552,310**

Applicant(s)

Chapman et al.

Examiner

Lincoln Donovan

Art Unit **2832**



Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.	
- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS to mailing date of this communication.	from the
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.	***
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communic - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).	ation.
 Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 	
Status	
1) X Responsive to communication(s) filed on <u>Dec 9, 2002</u>	·
2a) ☑ This action is FINAL . 2b) ☐ This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.	merits is
Disposition of Claims	
4) X Claim(s) 1, 3-9, and 18 is/are pending in the a	application.
4a) Of the above, claim(s) is/are withdrawn from	n consideration.
5) Claim(s) is/are allowed.	
6) X Claim(s) 1, 3-9, and 18 is/are rejected.	
7) Claim(s) is/are objected to	0.
8) Claims are subject to restriction and/or elect	ion requirement.
Application Papers	
9) The specification is objected to by the Examiner.	
10) The drawing(s) filed on Apr 19, 2000 is/are a) accepted or b) objected to by the Exam	niner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
11) The proposed drawing correction filed on is: a) approved b) disapproved	d by the Examiner.
If approved, corrected drawings are required in reply to this Office action.	
12) The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. §§ 119 and 120	
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).	
a) All b) Some* c) None of:	
1. Certified copies of the priority documents have been received.	
2. Certified copies of the priority documents have been received in Application No.	
 Copies of the certified copies of the priority documents have been received in this National Sta application from the International Bureau (PCT Rule 17.2(a)). 	age
*See the attached detailed Office action for a list of the certified copies not received.	
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).	
a) U The translation of the foreign language provisional application has been received.	
15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s).	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 1) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s).	

Application/Control Number: 09/552,310 Page 2

Art Unit: 2832

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the layers each "having a pair of ends connected by a pair of longitudinal sides that are 'adapted' to be received within elongated slots formed in the electromagnetic rotor" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1 and 3-9 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicant fails to provide an adequate written description of the layers

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Application/Control Number: 09/552,310 Page 3

Art Unit: 2832

each "having a pair of ends connected by a pair of longitudinal sides that are 'adapted' to be received within elongated slots formed in the electromagnetic rotor".

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1, 3-9 and 18 are rejected under 35 U.S.C. 112, second paragraph, as being

indefinite for failing to particularly point out and distinctly claim the subject matter which

applicant regards as the invention.

Regarding claims 1, 9 and 18, applicant should clarify the structure of the field coil being adapted to be received within elongated slots formed in the electromagnetic rotor. The term adapted to is unclear because it has been held that the recitation that an element is "adapted to" perform a function is not a positive limitation but only requires the ability to so perform. It does not constitute a limitation in any patentable sense. *In re Hutchison*, 69 USPQ 138, 33 CCPA 879 (1946). MPEP 706.03(c).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 09/552,310

Art Unit: 2832

Claims 1-9 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blaettner 7.

et al. [US 5,497,039] in view of Japan 358054606.

Blaettner et al. discloses a coil [26] for an electric machine comprising:

- multiple windings [figure 1]; and

- an epoxy powder resin coating [132] applied to the coil layers.

Blaettner et al. disclose the instant claimed invention except for: the powder resin specifically

having a dielectric strength of 1000-1500 v/mil.

Japan 358054606 discloses a coating for a coil of an electric machine formed of a silicon

powder resin having a high dielectric strength.

It would have been obvious to one having ordinary skill in the art at the time the invention was

made to use the coating composition of Japan 358054606 for Prostor, for the purpose of enabling

the coil to withstand the operating environment of a field coil.

Regarding claim 3, it would have been obvious to one having ordinary skill in the art at the

time the invention was made to not coat the end connection portions of the winding in order to

provide a good electrical connection.

Regarding claim 8, to add additional coatings would have been obvious for the purpose of

improving wear characteristics.

The specific materials used to form the coils would have been an obvious design consideration

based on the specific operating environment and loads.

Art Unit: 2832

Response to Arguments

- 8. Applicant's arguments filed 12-09-02 have been fully considered but they are not persuasive.

 Applicant argues:
- [1] Blaettner fails to show the windings or layers being received within radial slots of an electromagnetic rotor.
- [2] The examiner has not shown that the coating of Blaettner or Japan '606 has a dielectric strength of at least 1000 v/mil.
- [3] The examiner has not shown the specific method to apply the coating to the field coil such that the end connections are not coated.

Examiner disagrees:

Regarding [1]: Applicant has not shown or described the windings or layers being received within radial slots of an electromagnetic rotor.

Regarding [2]: Applicant acknowledges that the materials used by both Blaettner and Japan '606 exhibit the claimed characteristics [figure 1].

Regarding [3]: Applicant has not precluded that the coating on the ends of the connections can be removed therefrom, as is the normal practice, as acknowledged by applicant.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 09/552,310

Art Unit: 2832

A shortened statutory period for reply to this final action is set to expire THREE MONTHS

from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the

mailing date of this final action and the advisory action is not mailed until after the end of the

THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the

date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

calculated from the mailing date of the advisory action. In no event, however, will the statutory

period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Lincoln Donovan whose telephone number is (703) 308-3111.

The fax number for this Group is (703)-872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (703)308-0956.

LDD

January 17, 2003

PRIMARY 6 2100

Page 6